ATARI®

. . . wir machen Spitzentechnologie preiswert.

SERVICE – MANUAL

MEGA ST 2

MEGA ST 4

NETZTEIL

Schaltungsdienst Lange
Circuit-Diagram-Service in Germany

A/N: CA200055-XXX | REV. 5 | TITLE: PCB SUB ASSY | MODEL: MEGAST 4

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

A/N: CA200055-XXX

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001 -002 -003 -101 -102 -103	NOTE
193				
194				
195				
196				
197				
198				
199	34-2N3904	TRANSISTOR; 2N3904	6 6 6 6 6 6	
200		Q1, 3, 6~9		
201	34-2N3904	TRANSISTOR; 2N3904	1 1 1 1 1 1	
202		Q10		
203				
204				
205	33-2N3906	TRANSISTOR; 2N3906	1 1 1 1 1 1	
206		Q2		
207				
208				
209				
210				
211				
212				
213	C025993	CRYSTAL ; 2.4576 MHz	1 1 1 1 1 1	
214		Y1		
215	C100232	CRYSTAL ; 32.768 KHz	1 1 1 1 1 1	
216		Y2		
217	C100281	CRYSTAL MODULE ; 32.04245 MHz	1 1 1 1 1 1	
218		OSC1.		
219				
220				
221				
222				
223	C101643	IC ; ST BLITTER, CUSTOM	1 1 1 1 1 1	
224		U5		
225	C025982	IC; 68000-8, CPU	1 1 1 1 1 1	
226		U8		
227	C025913	IC; DMA CONTROLLER, CUSTOM	1 1 1 1 1 1	
228		U27		
229	C025915	IC; GLUE, CUSTOM	1 1 1 1 1 1	
230		U17		
231	C101608	IC; FULL CUSTOM SHIFTER(WITH D-A)	1 1 1 1 1 1	
232		U31		
233	C025912	IC; MCU, CUSTOM	1 1 1 1 1 1	
234		U30		
235	C025983	IC; YM2149, SOUND	1 1 1 1 1 1	
236		U16		
237	C025985	IC; 6850, ACIA	2 2 2 2 2 2	
238		U14, 15		
239	C025984	IC; 68901, MFP	1 1 1 1 1 1	
240		U18		

A/N: CA200055 - XXX	REV. 5	TITLE: PCB SUB ASSY	MODEL: MEGAST 4

REV	REVISION DESCRIPTION	DATE	APPROVED
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Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

A/N: CA200055-XXX

SHEET 7 OF 26

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001 -002 -003 -101 -102 -103	NOTE
241	C025986	IC ; 1488, RS-232C, DRIVER	1 1 1 1 1 1	
242		U19		
243	C025987	IC ; 1489, RS-232C, RECEIVER	1 1 1 1 1 1	
244		U20		
245	C026028	IC; WD1772, FDD CONTROLLER	1 1 1 1 1 1	
246		U28		
247	C101621	IC ; TL 7705A	1 1 1 1 1 1	
248		U1		
249	C025988	IC ; PC900, PHOTO COUPLER	1 1 1 1 1 1	
250		U13		
251	C070447	IC ; TL497A, SWITCHING REGULATOR	1 1 1 1 1 1	
252		U22		
253	C101614-000	IC; 74HC 00 QUAD NAND GATE	1 1 1 1 1 1	
254		U24		
255	C101622	IC ; RP5C15 REAL TIME CLOCK	1 1 1 1 1 1	
256		U25		
257	C101624-1XX	IC ; DYNAMIC RAM 1Mx1 (120 ns)	32 32 32 32 32 32	
258		U40~55 , 60~75		
259	C101625	IC ; RTCPAL , PAL16 L8	1 1 1 1 1 1	
260		U37		
261	C014340	IC ; 74LS02 , QUAD NOR	1 1 1 1 1 1	
262		U21		
263	C070210	IC ; 7406 , HEX INVERTER O.C	1 1 1 1 1 1	
264		U26		
265	C062080	IC ; 7407 , HEX, O.C. BUFFER	1 1 1 1 1 1	
266		U2		
267	C014362	IC ; 74LS32, QUAD 2-INPUT OR GATE	1 1 1 1 1 1	
268		U78		
269	C101611-148	IC ; 74LS148, 8 TO 3 PRIORITY ENCODER	1 1 1 1 1 1	
270		U39		
271	C014313	IC ; 74LS244, 3-STATE LINE BUFFER	4 4 4 4 4 4	
272		U32, 35, 58, 59		
273	C025992	IC ; 74LS373 , LATCH	2 2 2 2 2 2	
274		U33, 36		
275	C070857	IC ; 74LS11 , TRIPLE 3-INPUT AND GATE	1 1 1 - - -	
276		U12		
277				
278				
279				
280				
281				
282				
283	C070129	CONN ; 40 PIN, RIGHT ANGLE	1 1 1 1 1 1	
284		J2		
285	C070130-002	CONN ; DB-19S, HARD DISK	1 1 1 1 1 1	
286		J10 (HOOK TYPE)		
287	C070131	CONN ; 14 PIN, DIN, FLOPPY DISK	1 1 1 1 1 1	

A/N: CA200055-XXX	REV. 5	TITLE: PCB SUB ASSY	MODEL: MEGAST 4

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

A/N: CA200055-XXX

SHEET 8 OF 26

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001 -002 -003 -101 -102 -103	NOTE
289	C070134	CONN; 13PIN, DIN, VIDEO	1 1 1 1 1 1	
290		J14		
291	C070033	CONN; 5PIN, DIN, MIDI	2 2 2 2 2 2	
292		J3, 4		
293	C070132-002	CONN; DB-25P, RS232C	1 1 1 1 1 1	
294		J7 (HOOK TYPE)		
295	C070133-002	CONN; DB-25S, PARALELL	1 1 1 1 1 1	
296		J6 (HOOK TYPE)		
297	C100292-003	CONN; RIGHT ANGLE MODULAR JACK	1 1 1 1 1 1	
298		J5 6 CIRCUIT		
299	C070445	SINGLE INLINE CONNECTOR 6PIN	2 2 2 2 2 2	
300		J1, 18		
301	C070644-011	DOUBLE INLINE CONNECTOR 24 PIN	1 1 1 1 1 1	
302		J17		
303	C100283-001	DOUBLE INLINE CONNECTOR MALE TYPE, 64PIN	1 1 1 1 1 1	
304		J15		
305				
306				
307				
308				
309	C070119	PUSH SWITCH	1 1 1 1 1 1	
310		S1		
311	CA070072	PUSH SWITCH ASSY	ALT ALT ALT ALT ALT ALT	
312		(ALTERNATE FOR ITEM 309)		
313				
314				
315				
316				
317	C014386-09	SOCKET; 40 PIN	2 2 2 2 2 2	
318		(FOR U27, 31)		
319	C014386-08	SOCKET; 28 PIN	6 6 6 6 6 6	
320		(FOR U3, 4, 6, 7, 9, 10)		
321	C070120	SOCKET; 68 PIN PLCC	3 3 3 3 3 3	
322		(FOR U5, 17, 30)		
323				
324				
325				
326				
327	C070718	PLCC STOPPER	3 3 3 3 3 3	
328		(FOR U5, 17, 30)		
329				
330				
331	C100033	BANDAGE PLATE	1 1 1 1 1 1	
332				
333				
334				
335				
336				

A/N: CA200055-XXX | REV. 3 | TITLE: PCB SUB ASSY | MODEL: MEGAST 4

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10. Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

A/N: CA200055-XXX

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001 -002 -003 -101 -102 -103	NOTE
337	CA200053-002	CABLE ASSY: MALE TYPE 2PIN	1 1 1 1 1 1	
338		J9 (RED & BLACK)		
339	CA070024	FLAT CABLE 34P ASSEMBLED	1 1 1 1 1 1	
340		J12		
341	CA070023-003	CABLE 4P ASSEMBLED	1 1 1 1 1 1	
342		J11		
343				
344				
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NA

ASSY NO.	DESCRIPTION
CA200001 -001	120V FOR ST (ASP34-1)(ASPF34-1)
-002	220V FOR ST (ASP34-2)(ASPF34-2)
-003	120V FOR SH204 (ASP34-3)
-004	220V FOR SH204 (ASP34-4)
-005	120V FOR SH205 (ASPF34-3)
CA200001 -006	220V FOR SH205 (ASPF34-4)

REV.	REVISIONS DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	3/3/87	
B	REVISED PER ECO NO. 00447	7/3/87	

NOTES-UNLESS OTHERWISE SPECIFIED :

USED ON: ASP34-X, ASPF34-X	DRAWN BY / DATE: H.Kawamata 8-11-86	ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105
NEXT ASSY: CA200000-XXX / CA200003-XXX	CHECKED / DATE: K.Kitagawa 9-4-86	TITLE: PCB ASSY
MATERIAL:	ENGINEER / DATE: A.Shinagawa 1-21-87	SIZE: B — DRAWING NO: CA200001-XXX — REV: B
FINISH:	APPROVED / DATE: T. OKAZAKI 1/21/87	SCALE: — SHEET 1 OF 7
	APPROVED / DATE: 3/10/87	

THIRD ANGLE SYSTEM DIMENSION mm

A/N: CA200001-XXX | REV. E | TITLE: PCB ASSY | MODEL: ASP34-1/-2/-3/-4 ASPF34-1/-2/-3/-4

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

A/N: CA200001-XXX

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001	-002	-003	-004	-005	-006	NOTE
1	C070798	SCHEMATIC DIAGRAM	REF	-	-	-	-	-	
2	C100114	↕	-	REF	-	-	-	-	
3	C100115	↕	-	-	REF	-	REF	-	
4	C100116	SCHEMATIC DIAGRAM	-	-	-	REF	-	REF	
5									
6	C070799	PCB FABRICATION	REF	REF	REF	REF	REF	REF	
7									
8									
9	C070800-001	PCB (SINGLE SIDE) UL. CSA	1	-	1	-	1	-	
10	C100000-001	PCB (SINGLE SIDE) BSI. VDE	-	1	-	1	-	1	
11									
12									
13									
14									
15									
16	C070824-002	CAP; 0.22μF, 250V, RFI, FILTER	1	-	1	-	1	-	
17		C1							
18	C070823-001	CAP; 0.002μF, 400V, CER.	1	1	1	1	1	1	
19		C2							
20	C070824-001	CAP; 0.01μF, 250V, RFI, FILTER	1	1	1	1	1	1	
21		C3							
22	C070825-001	CAP; 0.022μF, 50V, ±10%, MYLA	1	1	1	1	1	1	
23		C10							
24	C070824-003	CAP; 1μF, 250V, RFI, FILTER	-	1	-	1	-	1	
25		C1							
26	C070824-002	CAP; 0.22μF, 250V, RFI, FILTER	1	1	1	1	1	1	
27		C16							
28	C070825-002	CAP; 0.22μF, 50V, ±10%, MYLA	1	1	1	1	1	1	
29		C11							
30	C070826-001	CAP; 1μF, 16V, TATALUM	1	1	1	1	1	1	
31		C8							
32	C070834-008	CAP; 47μF, 250V, ELEC	2	2	-	-	-	-	
33		C4, 5							
34	C100112-009	CAP; 100μF, 200V, ELEC	-	-	2	2	2	2	
35		C4, 5							
36	C101202-472	CAP; 4700μF, 16V, ELEC	1	1	1	1	1	1	
37		C13							
38	C070498-005	CAP; 100μF, 25V, ELEC	1	1	1	1	1	1	
39		C9							
40	C070849-006	CAP; 330μF, 25V, ELEC	3	3	3	3	3	3	
41		C7, 14, 15							
42									
43									
44	C070849-009	CAP; 2200μF, 25V, ELEC	1	1	1	1	1	1	
45		C12							
46	C070827	CAP; 470PF, 1KV, CER	1	1	1	1	1	1	
47		C6							
48									

A/N: CA200001-XXX | REV. B | TITLE: PCB ASSY | MODEL: ASP34-1/-2/-3/-4 ASPF34-1/-2/-3/-4

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

A/N: CA200001-XXX

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001 -002 -003 -004 -005 -006	NOTE
49				
50				
51				
52				
53				
54				
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56				
57				
58				
59				
60				
61				
62				
63				
64	C070828-010	RES; 1Ω, 1W, ±5%, M.F	1 1 1 1 1 1	
65		R8		
66	14-5150	RES; 15Ω, 1/4W, ±5%, C.F	1 1 1 1 1 1	
67		R7		
68	C070829-510	RES; 51Ω, 2W, ±5%, M.F	1 1 1 1 1 1	
69		R5		
70	C070829-680	RES; 68Ω, 2W, ±5%, M.F	1 1 - - - -	
71		R18		
72	14-5121	RES; 120Ω, 1/4W, ±5%, C.F	3 3 3 3 3 3	
73		R9~11		
74	C070830-221	RES; 220Ω, 1/2W, ±5%, C.F	1 1 1 1 1 1	
75		R17		
76	C070829-331	RES; 330Ω, 2W, ±5%, M.F	1 1 1 1 1 1	
77		R4		
78	14-5471	RES; 470Ω, 1/4W, ±5%, C.F	1 1 1 1 1 1	
79		R15		
80	C070830-102	RES, 1KΩ, 1/2W, ±5%, C.F	- 1 1 1 1 1	
81		R16		
82	14-5332	RES, 3.3KΩ, 1/4W, ±5%, C.F	2 2 2 2 2 2	
83		R6, 12		
84	14-5512	RES, 5.1KΩ, 1/4W, ±5%, C.F	- - 2 2 2 2	
85		R13, 14		
86	C070831-154	RES; 150KΩ, 1/2W, ±5%, M.F	2 2 2 2 2 2	
87		R2, 3		
88	C070830-221	RES; 220Ω, 1/2W, ±5%, C.F	1 - - - - -	
89		R16		
90				
91				
92				
93				
94				
95				
96				

A/N: CA200001-XXX	REV. B	TITLE: PCB ASSY	MODEL: ASP34-1/-2/-3/-4 ASPF34-1/-2/-3/-4

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

A/N: CA20000/-XXX

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001 -002 -003 -004 -005 -006	NOTE
97				
98				
99	C070810	PHOTO COUPLER; PC817 (SHARP)	1 - 1 - 1 -	
100		PC1		
101	C070844	PHOTO COUPLER; CNY65	- 1 - 1 - 1	
102		PC1		
103				
104				
105	C070801	INDUCTOR; 1A, OUTPUT FILTER	1 1 1 1 1 1	
106		L2		
107	C070802	INDUCTOR; 3A, OUTPUT FILTER	1 1 1 1 1 1	
108		L1		
109				
110	C070803	LINE FILTER;	1 1 1 1 1 1	
111		T1		
112				
113				
114				
115	C070805	TRANSISTOR; 2SC1384	1 1 1 1 1 1	
116		Q1		
117	C070806	TRANSISTOR; BU508	1 1 1 1 1 1	
118		Q2		
119				
120				
121	C070807-001	THERMISTOR NTC; SD-11	1 1 1 1 1 1	
122		R1		
123	C070807-002	THERMISTOR NTC; NTH11D5R0LA	ALT ALT ALT ALT ALT ALT	
124		(ALTERNATE FOR ITEM #121)		
125	C070807-003	THERMISTOR NTC;	ALT ALT ALT ALT ALT ALT	
126		(ALTERNATE FOR ITEM #121)		
127				
128				
129				
130				
131				
132				
133				
134				
135				
136				
137	C070811	RECTIFIER BRIDGE; GI, W08M	1 1 1 1 1 1	
138		DB1		
139				
140				
141	C070813	SHR; TL431(TI)	1 1 1 1 1 1	
142		Q3		
143				
144				

V4

A/N: CA200001-XXX	REV. B	TITLE: PCB ASSY	MODEL: ASP34-1/-2/-3/-4 ASPF34-1/-2/-3/-4

A/N: CA200001-XXX

SHEET 3 OF 7

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001	-002	-003	-004	-005	-006	NOTE
145	C070814	FUSE CLAMP	2	2	2	2	2	2	
146									
147	C070809-001	SCHOTTKY DIODE; SB340	1	1	1	1	1	1	
148		D2							
149	C070809-002	SCHOTTKY DIODE; SB340	1	1	1	1	1	1	
150		D3							
151	C070809-003	SCHOTTKY DIODE; SB340	1	1	1	1	1	1	
152		D4							
153	C070808	SCHOTTKY DIODE; BYV 95A	1	1	1	1	1	1	
154		D1							
155	C017988	DIODE; IN5391	1	1	-	-	-	-	
156		D5							
157									
158									
159	C070804-001	TRANSFORMER EI-33, UL, CSA	1	-	1	-	1	-	
160		T2							
161	C070804-002	TRANSFORMER	-	1	-	1	-	1	
162		T2							
163									
164									
165									
166									
167	C070819	HEAT SINK, TR	1	1	1	1	1	1	
168									
169									
170	C070845	HEAT SINK, DIODE	1	1	1	1	1	1	
171									
172									
173									
174									
175									
176	C070822	DC O/P PLUG ASSY, 6 WIRE	1	1	-	-	1	1	
177	C026189-002	DC O/P POWER HARNESS (3 WIRE)	-	-	1	1	-	-	
178	C026190-002	DC O/P POWER HARNESS (5 WIRE)	-	-	1	1	-	-	
179	C070921	DC O/P POWER HARNESS (2 WIRE)	-	-	1	1	-	-	
180									
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A/N: CA200001 - XXX | REV. B | TITLE: PCB ASSY | MODEL: ASP34-1/-2/-3/-4 ASPF34-1/-2/-3/-4 | A/N: CA200001-XXX | SHEET 8 OF 7

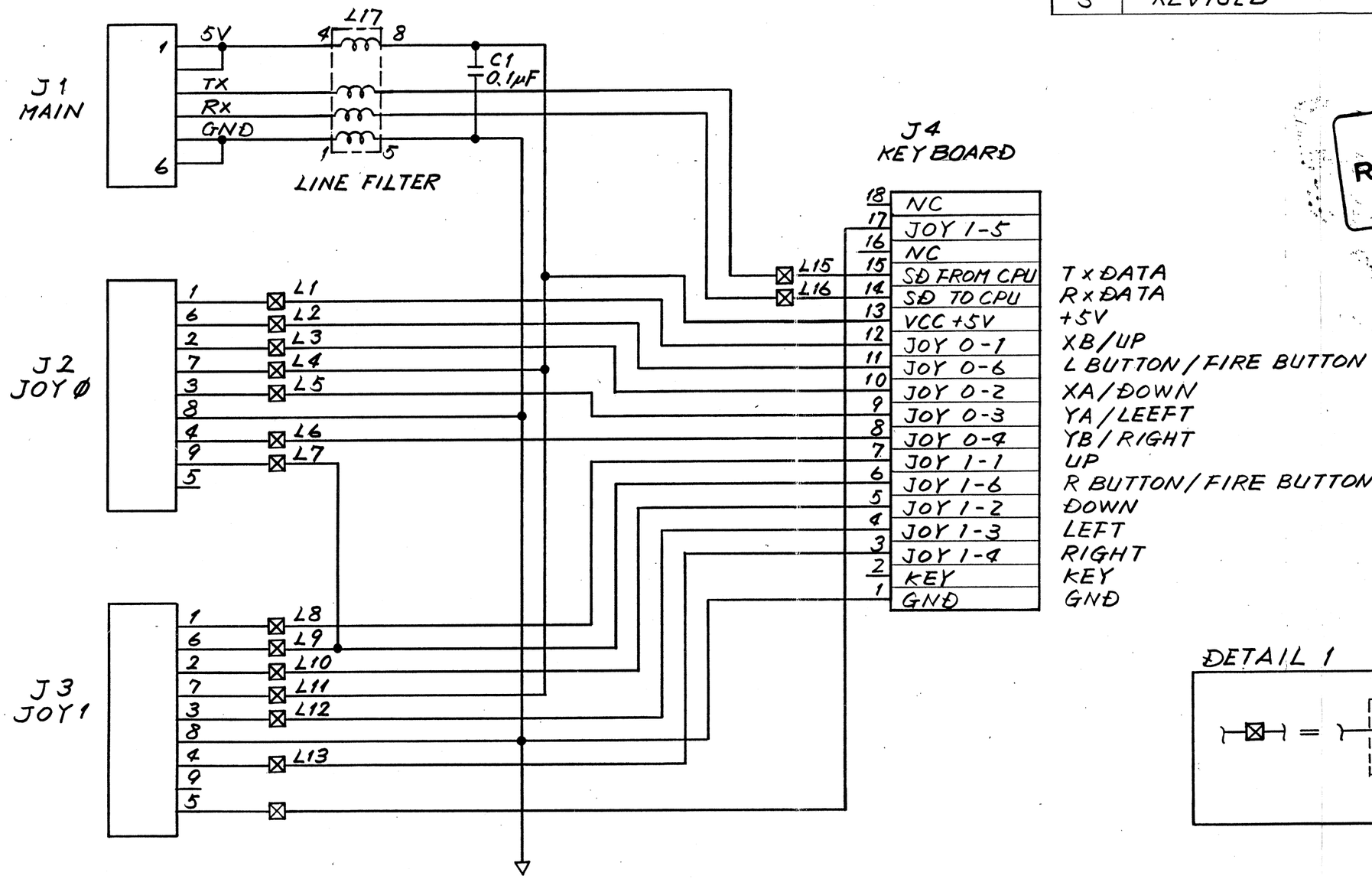
REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

VERSION	STANDARD	MARKET

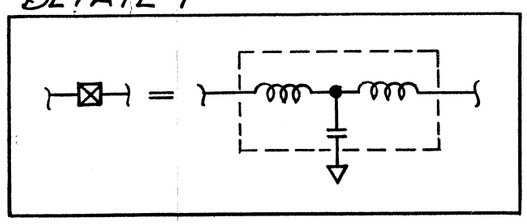
ITEM NO.	PART NUMBER	DESCRIPTION	QTY. REQUIRED PER VERSION -001 -002 -003 -004 -005 -006	NOTE
193				
194				
195	C070812-004	FUSE; 5MF, 2A, 250V, 5×20mm	1 1 1 1 1 1	
196		F1		
197				
198				
199				
200				
201				
202	C070820	TR, CLAMP	1 1 1 1 1 1	
203				
204				
205				
206				
207				
208				
209	C070821	TR, INSULATOR	1 - 1 - 1 -	
210	C070846	TR, INSULATOR	- 1 - 1 - 1	
211				
212				
213				
214				
215	C070837	CAUTION LABEL (RED)	1 1 1 1 1 1	
216				
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REV	REVISIONS DESCRIPTION	DATE	APPROVED
1	PRELIMINARY RELEASE	3/19/87	
2	DELETE RES. & CAP. (R1, C2)	1-9-87	
3	REVISED	2/19/87	



REFERENCE ONLY

DETAIL 1



2. USE SUPPLIED P.C.B. C100063, REV. 1
1. NOISE FILTER : SEE DETAIL 1 .

NOTES—UNLESS OTHERWISE SPECIFIED:

CA200042-XXX	MEGA ST KEYBOARD
NEXT ASSY	USED ON
APPLICATION	

TOLERANCES	
UNDER 30	±0.1
30 THRU 300	±0.2
OVER 300	±0.4
MATERIAL	
FINISH	

DRAWN BY / DATE	I. Yoshida 10-24-86
CHECKED / DATE	K. Kitagawa 10-27-86
ENGINEER / DATE	A. Shinagawa 2-16-87
APPROVED / DATE	S. OKAZAKI 2/18/87
APPROVED / DATE	2/19/87

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ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

TITLE: SCHEMATIC DIAGRAM FOR SUB P.C.B. (MEGA ST KEYBOARD)

SIZE	DRAWING NO.	REV
B	C100069	3

SCALE NONE — SHEET 1 OF 1

THIRD ANGLE SYSTEM. DIMENSION : mm

REV	REVISIONS DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

CONNECTOR

NO.	SIGNAL
1	GND
2	KEY
3	JOY1-4
4	JOY1-3
5	JOY1-2
6	JOY1-6
7	JOY1-1
8	JOY0-4
9	JOY0-3
10	JOY0-2
11	JOY0-6
12	JOY0-1
13	VCC +5V
14	SO TO CPU
15	SO FROM CPU
16	NC
17	JOY1-5

VCC, GND, 10KΩ×11, 10KΩ×15, 10KΩ×8, R38 R37 R36 R35 R34 R33 R32 R31 R30 R29 R28 R27 R26 R25 R24 R23 R22 R21 R20 R19 R18 R17 R16 R15 R14 R13 R12 R11 R10 R9 R8 R7 R6 R5

F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 Help Undo (/) * ESC ' 2 $ 4 & 6 (8 = 9 ' - Back space ↑ 7 9 ! 1 " 3 % 5 ' 7) 9 ? 8 ^ # Del ete Clr Home 8 − Tab W R Z U O Ü / @ Ins ert ← 4 6 Cont rol Q E T G I P * + ! ~ ↓ 5 + Left Shift A S F H J L Ö { [Ret urn → 1 2 3 Alter nate V D C B K ; , : . Ä }] Right Shift Y X V N M Space Caps Lock — _ 0 . Ent er

D15 D14 D13 D12 D11 D10 D9 D8 D7 D6 D5 D4 D3 D2 D1

IN914 ×15

L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14

GND VCC C8 0.1μF

10 74LS244 20 U2 1

C7 0.1μF

U1 6301 V1

E SC1 SC2 P30 P31 P32 P33 P34 P35 P36 P37 P40 P41 P42 P43 P44 P45 P46 P47 VCC

VSS XTAL EXTAL NMI IRQ RES STBY P20 P21 P22 P23 P24 P10 P11 P12 P13 P14 P15 P16 P17

GND VCC

CAPS LOCK D16 R4 220Ω VCC Q1 2N3904 R3 1KΩ

C4 100μF + C5 0.1μF R1 220Ω D18 C6 0.1μF

L13 L14

W1 JUMPER

FRAME

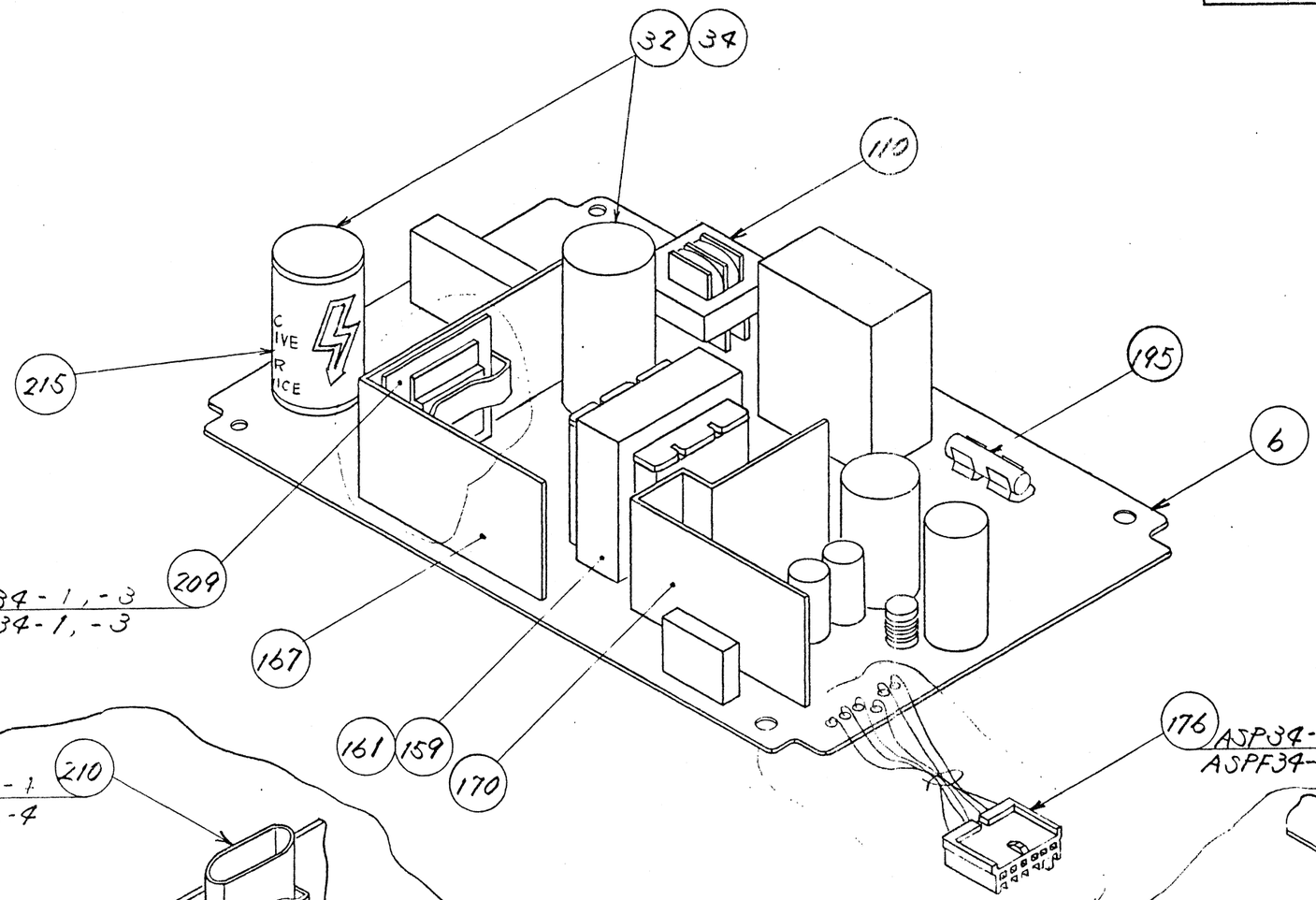
L1 ~ L14 = 1

Y1 4MHz C2 20pF C1 20pF R2 47KΩ D17 IN914 C3 2.2μF

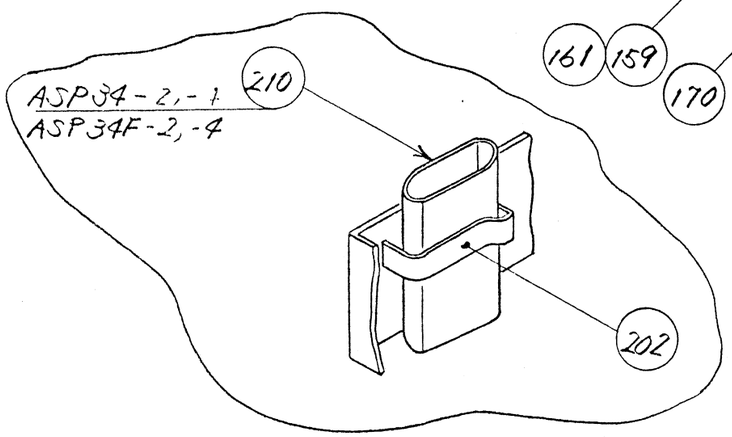
USED ON	DRAWN BY / DATE	ATARI (JAPAN) CORPORATION	
	M Sakurai 1-30-87	Toranomon Kiyoshi Building	
NEXT ASSY	CHECKED / DATE	4-3-10, Toranomon Minato-ku, Tokyo 105	
	K.K.T 2-16-87	TITLE	
MATERIAL	ENGINEER / DATE	KEYBOARD SCHEMATIC DIAGRAM (GERMANY 98KEY)	
	A.Shinagawa 2-16-87	SIZE / DRAWING NO.	REV
FINISH	APPROVED / DATE	C / C100264	2
	S.OKABAYASHI 2/16/87	SCALE NONE	SHEET 4 OF 5
	APPROVED / DATE		
	2/16/87		

THIRD ANGLE SYSTEM. DIMENSION : mm

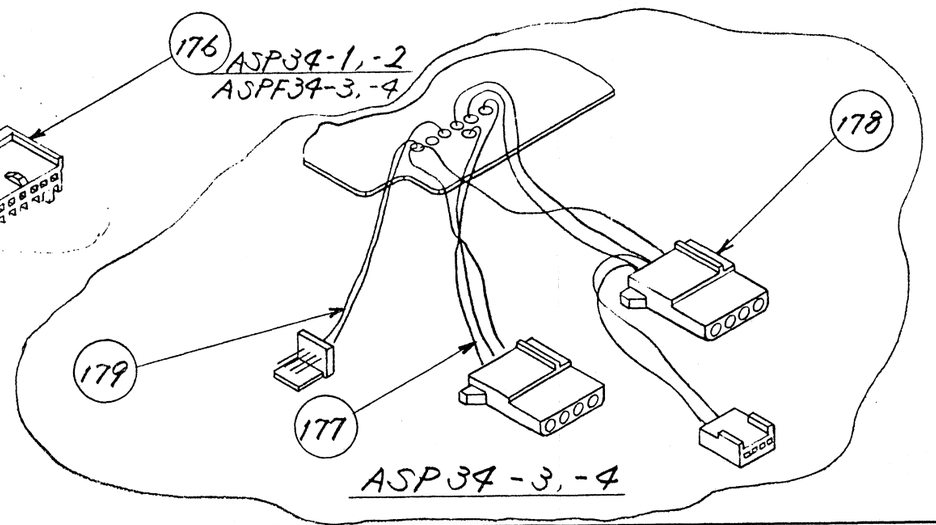
REV	REVISIONS DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		



ASP34-1,-3
ASPF34-1,-3



ASP34-2,-4
ASP34F-2,-4



ASP34-1,-2
ASPF34-3,-4

ASP34-3,-4

NOTES—UNLESS OTHERWISE SPECIFIED:

CA200003-xxx	ASP34-31-4
CA200000-xxx	ASP34-X
NEXT ASSY	USED ON

APPLICATION

TOLERANCES	
UNDER 30	±0.1
30 THRU 300	±0.2
OVER 300	±0.4

MATERIAL

FINISH

DRAWN BY	DATE
H.Kawamata	8-25-86
CHECKED	DATE
K.Kitagawa	9-4-86
ENGINEER	DATE
A.Shinagawa	2-16-87
APPROVED	DATE
S.OKABAKI	2/17/87
APPROVED	DATE
	2/20/87

ATARI®

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

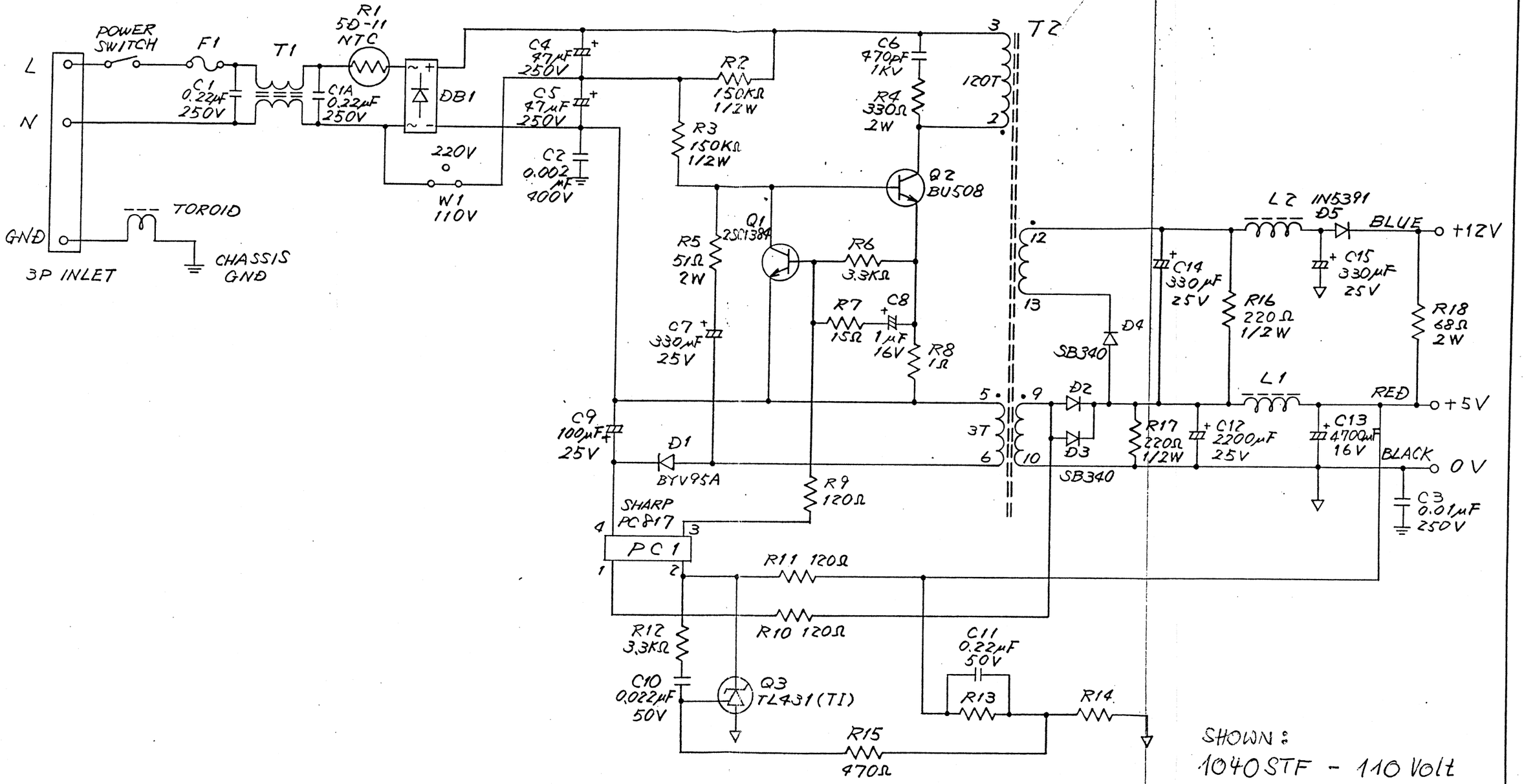
TITLE: PCB ASSY

SIZE	DRAWING NO.	REV
B	CA200001-xxx	B

SCALE NONE | SHEET 7 OF 7

THIRD ANGLE SYSTEM. DIMENSION : mm

REV	REVISIONS DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	3/20/87	



SHOWN :
1040STF - 110 Volt

TOLERANCES	
UNDER 30	±0.1
30 THRU 300	±0.2
OVER 300	±0.4

USED ON: ASP34-1
NEXT ASSY:
MATERIAL:
FINISH:

		DATE
DRAWN BY	I. Yoshida	9/23/86
CHECKED	K. Kitagawa	9-18-86
ENGINEER	A. Shinagawa	10-23-86
APPROVED		
APPROVED		10/23/86

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

TITLE: SCHEMATIC DIAGRAM (ASP34-1)

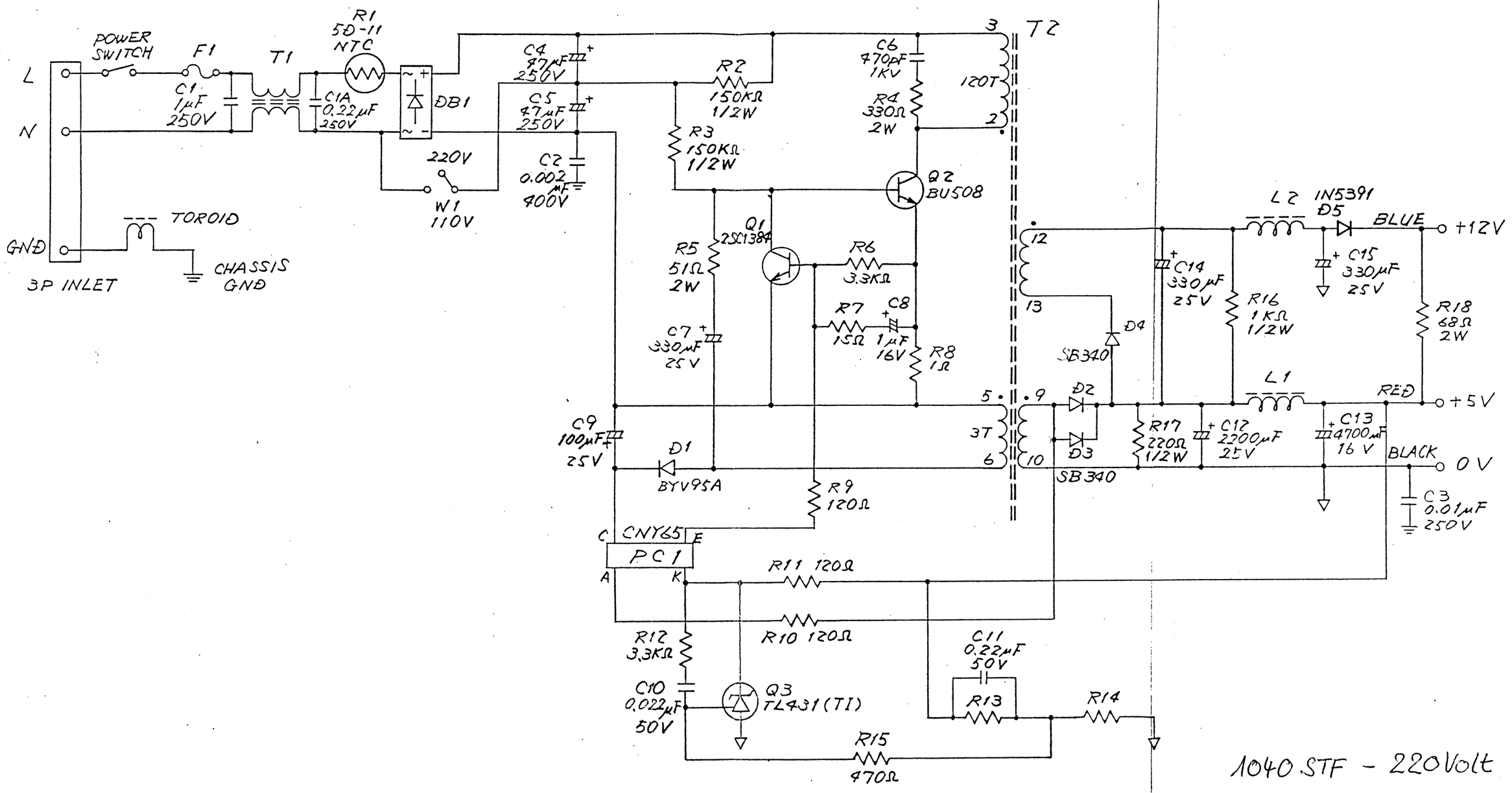
SIZE	DRAWING NO.	REV
B	C070798	A

SCALE: NONE
SHEET 1 OF 1

THIRD ANGLE SYSTEM DIMENSION : mm

48

REV	REVISIONS DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	3/30/87	



1040 STF - 220Volt

TOLERANCES	
UNDER 30	±0.1
30 THRU 300	±0.2
OVER 300	±0.4

USED ON	ASP34-2
NEXT ASSY	
MATERIAL	
FINISH	

DRAWN BY / DATE	I.Yoshida 9/23/86
CHECKED / DATE	K.Kitagawa 9-18-86
ENGINEER / DATE	A.Shinagawa 10-23-86
APPROVED / DATE	
APPROVED / DATE	10/23/86

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

TITLE: SCHEMATIC DIAGRAM (ASP34-2)

SIZE	DRAWING NO.	REV
B	C100114	A

SCALE NONE | SHEET 1 OF 1

THIRD ANGLE SYSTEM. DIMENSION : mm

REV	REVISIONS DESCRIPTION	DATE	APPROVED
1	PRELIMINARY RELEASE	3/1/87	
7	CHANGED CONNECTOR (J17)	4/17/87	
8	CHANGED RESISTANCE OF F36	5/27/87	
9	ADDED MICRO FUSE TO L1	7/14/87	
6	REVISED	2/16/87	

[5] ROM TABLE ; SEE SHEET 5 OF 6

[4] NOT REQUIRED FOR ASSY NO. CA2000055-XX1 .

3. PUT JUMPER WIRE FROM (a) TO (b) (IN DETAIL A) L2~4, 6~8, 13~22, 24~30, 32~43)
   ASSY NO. CA2000055-XX2 .

2. NOISE FILTER : SEE DETAIL 1 .

1. RESISTORS ARE MEASURED IN OHMS, 5%, 1/4 WATT .

NOTES - UNLESS OTHERWISE SPECIFIED :

REFERENCE ONLY

USED ON	DRAWN BY	DATE
MEGA ST 4	H.Kawamoto	7-18-86
NEXT ASSY	CHECKED	DATE
CA2000055-XXX		2-16-87
MATERIAL	ENGINEER	DATE
		3-27-87
FINISH	APPROVED	DATE
	APPROVED	DATE

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

TITLE: SCHEMATIC DIAGRAM (MEGAST 4)

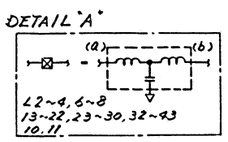
SIZE D | DRAWING NO. C100166 | REV 9

SCALE NONE | SHEET 1 OF 6

NO.	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

ASSY NO.	L1
CA2000055-xx1	MICRO FUSE
CA2000055-xx2	FB

DETAIL "A"



USED ON	DRAWN BY H. Kawamata 7-18-86	ATARI (JAPAN) CORPORATION	
NEXT ASSY	CHECKED F. Kitagawa 2-16-87	Toranomon Kiyoshi Building 3F, 4-3-10, Toranomon Minato-ku, Tokyo 105	
MATERIAL	ENGINEER K. Miyazawa 3-27-87	TITLE SCHEMATIC DIAGRAM (MEGAST T.)	
FINISH	APPROVED R. Ohkawari 3/27/87	SIZE D	DRAWING NO. C100166
	APPROVED [illegible] 4/7/87	SCALE NONE	SHEET 2 OF 6

THIRD ANGLE SYSTEM DIMENSION

REV	REVISIONS DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

P/N C101608 FULL CUSTOM W/ D TO A CONVERTER

U31 SHIFTER

VIDEO

DIN13

U24 74HC00

U25 RP5C15

USED ON	
NEXT ASSY	
MATERIAL	
FINISH	

DRAWN BY H. Kawamoto 7-18-86 DATE
CHECKED K. Kitagawa 7-16-87 DATE
ENGINEER K. Morikawa 3-27-87 DATE
APPROVED N. OKABAYASHI 3/27/87 DATE
APPROVED 3/27/87 DATE

ATARI (JAPAN) CORPORATION
Toranomon Kiyoshi Building 3F
4-3-10, Toranomon Minato-ku, Tokyo 105

TITLE SCHEMATIC DIAGRAM (MEGAST 2)

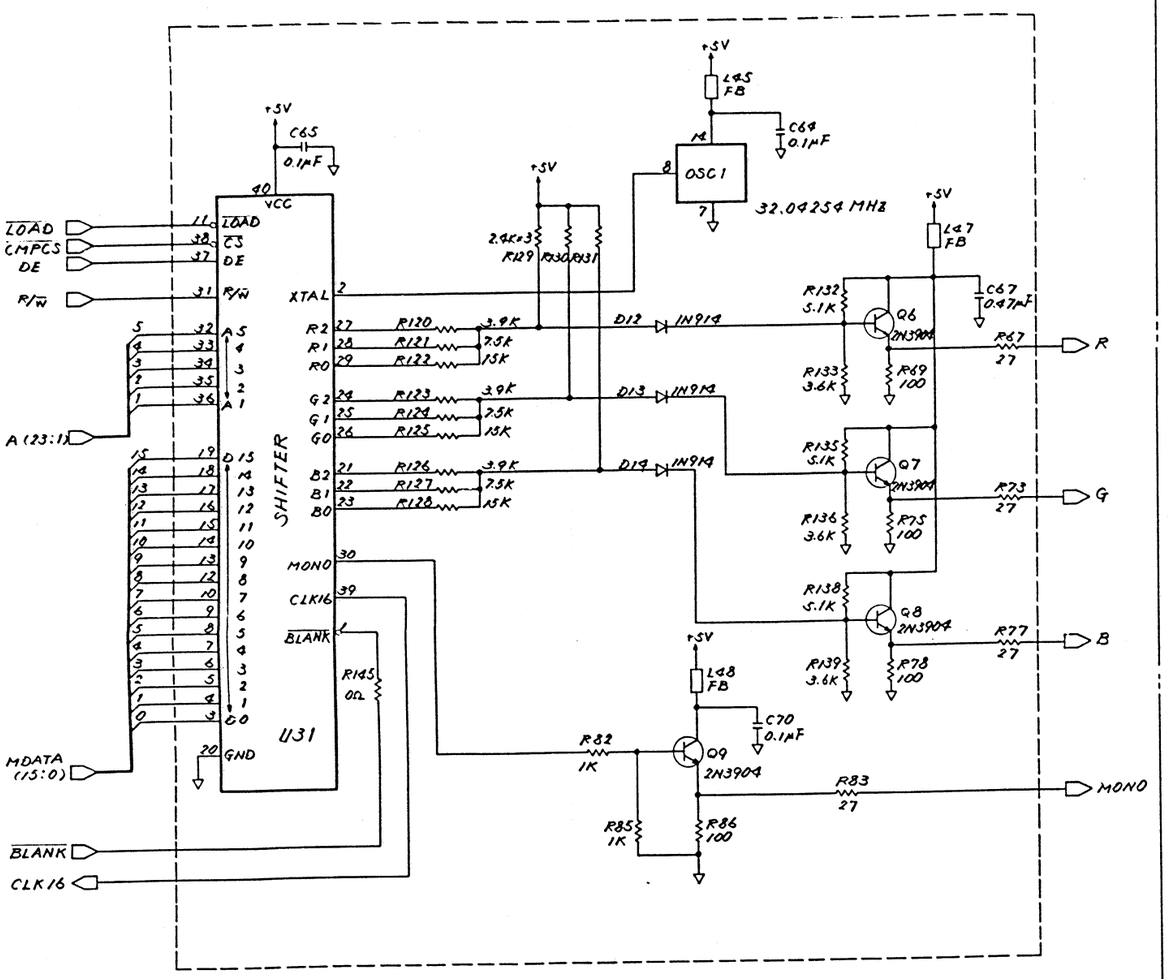
SIZE D | DRAWING NO. C100166 | REV 9

SCALE NONE | SHEET 3 OF 6

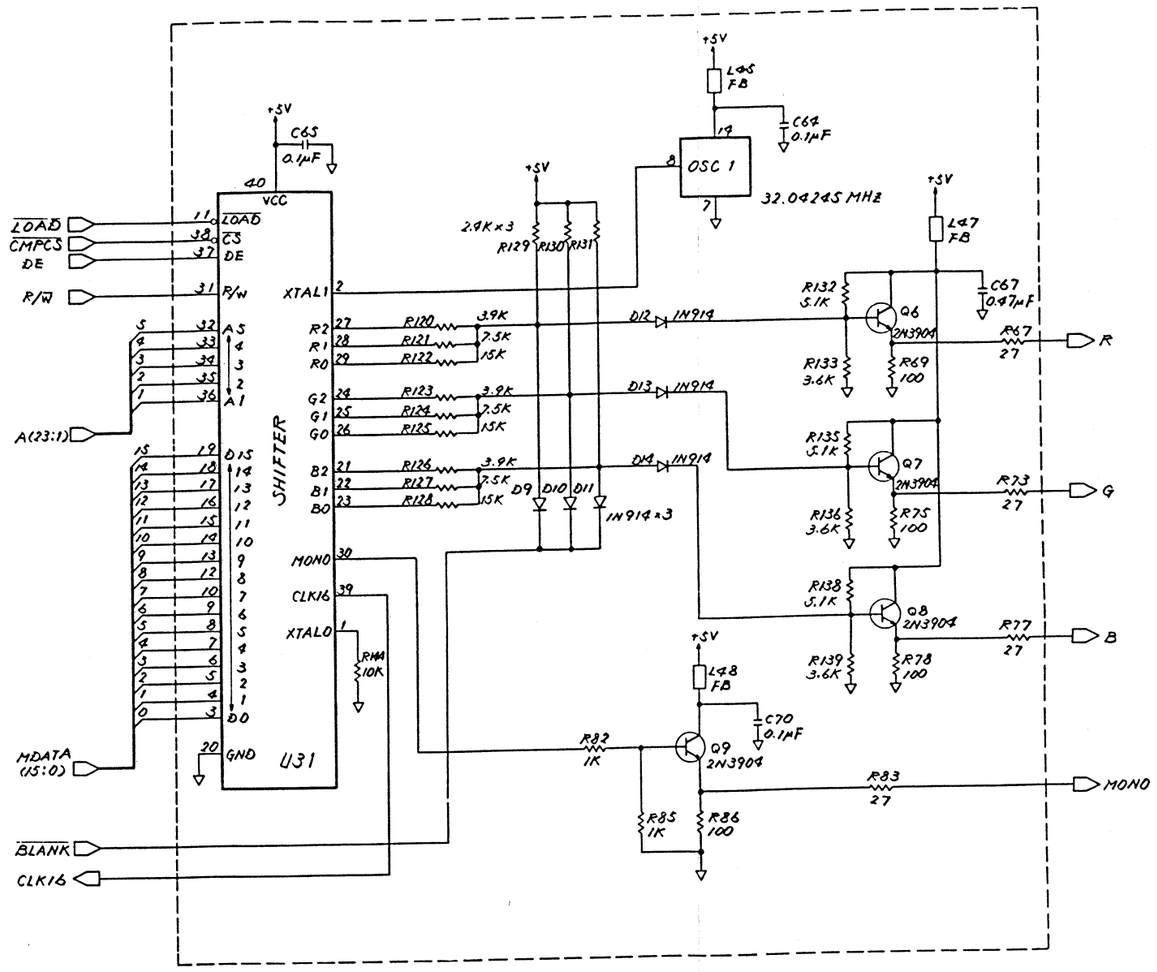
THIRD ANGLE SYSTEM DIMENSION mm

REVISIONS DESCRIPTION	DATE	APPROVED

SEE SHEET 1.



P/N C070713 FULL CUSTOM W/O D TO A CONVERTER

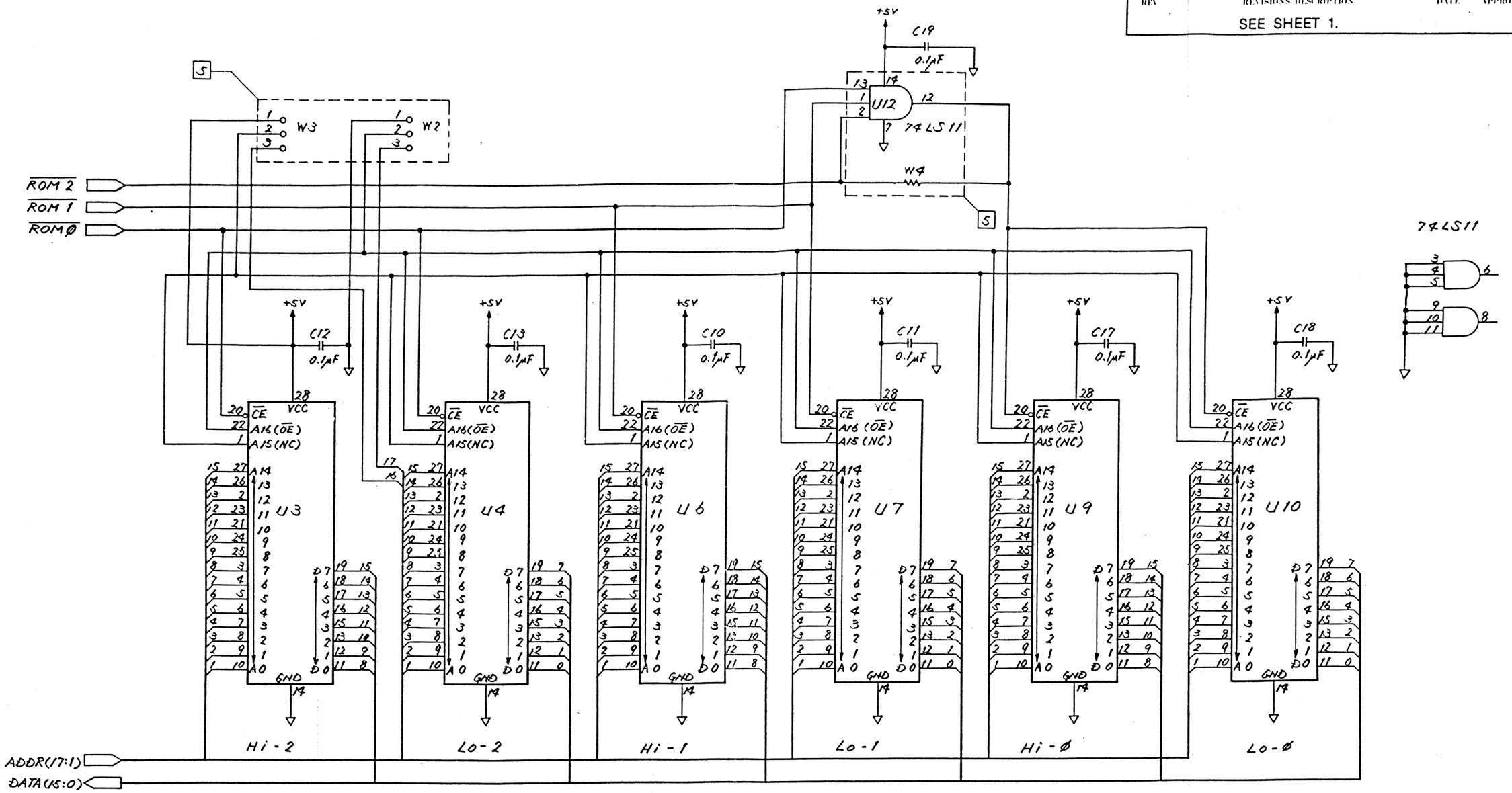


P/N C025914 GATE ARRAY W/O D TO A CONVERTER

USED ON	DRAWN BY H. Kawamata 3-5-87 DATE	ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105
NEXT ASSY	CHECKED K. Kitagawa 3-16-87 DATE	TITLE SCHEMATIC DIAGRAM (MEGAST 4)
MATERIAL	ENGINEER T. Maruyama 3-27-87 DATE	SIZE D DRAWING NO. C100166 REV 9
FINISH	APPROVED M. OKAZAKI 3/27/87 DATE	SCALE NONE SHEET 4 OF 6

THIRD ANGLE SYSTEM DIMENSION

REV	REVISIONS DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		



S ROM TABLE

IC ; U12 (74LS11)
JUMPER ; W2, W3, W4

ROM	LOCATION			
	W2	W3	W4	U12
256K	1-2	1-2	JUMPER	NO USE
1M x2	2-3	2-3	NON	USE
1M x6	2-3	2-3	JUMPER	NO USE

NOTES - UNLESS OTHERWISE SPECIFIED :

USED ON	DRAWN BY N.Hanamura	DATE 11-27-86	ATARI ATARI (JAPAN) CORPORATION Toranomon Kiyoshi Building 3F 4-3-10, Toranomon Minato-ku, Tokyo 105
NEXT ASSY	CHECKED K. Kitagawa	DATE 2-16-87	TITLE SCHEMATIC DIAGRAM (MEGAST 4)
MATERIAL	ENGINEER K. Maruyama	DATE 3-27-87	SIZE C · DRAWING NO. C100166 · REV 9
FINISH	APPROVED S. OKAZAKI	DATE 3/27/87	SCALE NONE · SHEET 5 OF 6
	APPROVED	DATE 3/27/87	THIRD ANGLE SYSTEM DIMENSION : mm

REV	REVISION DESCRIPTION	DATE	APPROVED
	SEE SHEET 1.		

+5V
L50
10μH
C180
1000μF
+5VA

MADDR (2..9)
MAD1
MAD0
RAS3
CAS3H
CAS3L
RAS3
CAS3H
CAS3L
WE
MDATA (15:0)

U58 U59 74LS244
U67 U66 U65 U64 U63 U62 U61 U60
U75 U74 U73 U72 U71 U70 U69 U68
U55 U54 U53 U52 U51 U50 U49 U48
U47 U46 U45 U44 U43 U42 U41 U40

1M RAM

SEE SHEET 1.

USED ON	DRAWN BY / DATE: H.Tawamata 11.28.86	ATARI (JAPAN) CORPORATION
NEXT ASSY	CHECKED / DATE: K.K.Ogawa 7-16-87	Toranomon Kiyoshi Building 3F, 4-3-10, Toranomon Minato-ku, Tokyo 105
MATERIAL	ENGINEER / DATE: 3-27-87	TITLE: SCHEMATIC DIAGRAM (MEGAST 9)
FINISH	APPROVED / DATE: 3/27/87	SIZE D · DRAWING NO. C100166 · REV 9
	APPROVED / DATE: 3/27/87	SCALE NONE · SHEET 6 OF 6

THIRD ANGLE SYSTEM DIMENSION